

SECTION L
INSTRUCTIONS, CONDITIONS, AND NOTICES TO
CONTRACTORS

This RTP is issued to the CLIN 001 small business IDIQ contractors in accordance with the Ordering Procedures Clause H.10 (c).5 of the multiple award IDIQ basic contracts.

L.1 PROPOSAL CONTENT/SUBMITTAL DATA:

- (a) The Contractor shall submit a written proposal in response to this RTP by 3:00 p.m. Eastern Daylight Time on **September 6, 2006** to the Contracting Officer. The following information shall be placed on the proposal boxes or envelopes:

U.S. Department of Energy
Environmental Management Consolidated Business Center Office of Contracting
250 East 5th Street, Suite 500
Cincinnati, OH 45202

RTP No.: DE-RT30-06CC00009

Proposal Due Date and Time: September 6, 2006 – 3:00 p.m.
Attention: Harold D. Hincks, Contracting Officer

NOTICE TO DOE MAIL ROOM: DO NOT OPEN. THIS IS A PROPOSAL UNDER THE ABOVE-IDENTIFIED SOLICITATION

- (b) The entire proposal shall consist of three sections: The first volume shall consist of the signed cover letter, a copy of Attachment L-7 "Cost and Fee Recapitulation," acknowledgement of RTP Amendments (signed SF 30s), updated certification (FAR 52.209-5 Certification Regarding Debarment, Suspension, Proposed Debarment, and Other Responsibility Matters), as well as any other information required to be submitted by the contractor. The second volume will consist of the technical and management proposal, the key personnel proposal/resumes, and the past performance information. The third volume shall consist of the cost proposal. Additional volumes may be submitted for the cost proposal, if necessary.

- (c) The Technical and Management Proposal shall not exceed twenty-five (25) pages (plus five (5) fold-outs). Pages in excess of this will not be evaluated. The 25-page limitation does not apply to Section L.3.1(a)(9), Section L.2, Section L.3.2 "Key Personnel" or Section L.3.3 "Past Performance." Print type used in the text portions of the proposal shall be no smaller than 12-point. Print type used in charts, graphs, figures and tables may be smaller than 12-point, but must be clearly legible. Fold-outs must be limited to five (5) pages, in addition to twenty-five page limitation, and may contain graphics, diagrams, schedules, tables, etc. at the discretion of the Contractor. The 25 pages in the Technical and Management Proposal are limited to a size per page of 8 1/2 x 11 inches. The fold-outs are limited to a size per page of 11 x 17 inches. (Note: Tables of Contents, Lists of Figures, dividers, tabs, or similar inserts that do not provide any substantive information are not counted as a page).
- (d) The Contractor shall submit one (1) original and five (5) hard copies, and one (1) electronic copy (a Compact Disc (CD)) of the volume containing the technical and Management proposal, the key personnel proposal/resumes, and past performance information. Any written text for the Technical and Management Proposal shall be submitted using Adobe Acrobat 6.0 (PDF) or higher. The electronic media versions provided shall be searchable.
- (e) See Section L.4 for the Cost Proposal submission instruction.
- (f) Proposals are expected to conform to all RTP provisions and be prepared in accordance with the instructions and outline contained in this Section L.

L.2 PROPOSAL PREPARATION INSTRUCTIONS

- (a) The signed cover letter signifies a signed proposal. The signed cover letter shall include following information:
- Request for Task Proposal (RTP) number
 - Name, address, telephone and facsimile numbers, and email addresses of the Contractor
 - A statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation

- Acknowledgment of receipt of all amendments to this RTP
- Names, titles, telephone and facsimile numbers, and e-mail addresses of persons authorized to negotiate with the Government on the Contractor's behalf in connection with this solicitation
- Name, address, telephone, electronic addresses, and facsimile numbers of representatives of the Government agency or agencies having administrative cognizance over the Contractor, Teaming Partners and/or Major Subcontractors.

(b) The Contractor shall provide the cost and fee information in Section B as an attachment (use the format of attachment L-7 "Cost and Fee Recapitulation") to the cover letter.

L.3 VOLUME II

1. TECHNICAL AND MANAGEMENT PROPOSAL

(a) The Technical and Management Proposal shall present the Contractor's understanding, capabilities, resources, and approach to satisfying and performing the requirements of the Statement of Work (SOW).

- (1) No cost information is to be included in the Technical and Management section of the proposal, the key personnel proposals/resumes, or past performance information
- (2) The Contractor shall describe its technical and management approach to performing and achieving the SOW elements supporting waste removal priorities, including any unique methods or alternate excavation-based strategies for completing the SOW by the Contractor's proposed date within the required funding restrictions and constraints. NO cost information is to be included in the technical and management proposal. See Section M regarding evaluation of technical and management approach and schedule for compliance with the funding restrictions and constraints.
- (3) At a minimum, the Contractor shall describe its proposed technical and management approach for excavation, waste management, packaging, shipping, transportation and

disposition of all waste types per SOW element. The Contractor shall describe its approach in sufficient detail to demonstrate its approach will accomplish the work as described by the SOW and in a manner that complies with the funding restrictions and constraints as well as utilizes funding in cost effective and efficient manner.

- (4) The assumptions and estimated waste quantities in Attachment L-5 shall be used as the initial basis upon which contractors should prepare their proposals.
- (5) The Contractor shall describe any of its own assumptions based on its proposed approach and provide rationale and basis for its assumptions.
- (6) The Contractor shall describe its proposed Final Verification Survey approach and its approach to providing documentation to support the OU-1 end state.
- (7) The Contractor shall identify the technical and management risks (include impacts), as well as the approaches for elimination, avoidance, and mitigation of the risks identified.
- (8) The Contractor shall describe its approach to project management and its project management system.
- (9) The Contractor shall provide an organizational chart, Organizational Breakdown Structure (OBS), Work Breakdown Structure (WBS), down to Level 4, and the summary level critical path schedule with logic ties. (These items are not included in the 25-page limitation or in the 5-page fold-out limitation for the Technical and Management section of the proposal).
- (10) The Contractor shall describe its cost control and tracking methods anticipated to be used to maximize performance within project funding.
- (11) The Contractor shall propose two to three performance measurement milestones for each CLIN, based upon the milestones that can be used to best demonstrate CLIN performance (work progress and cost), including the contractor's rationale for the selection of the milestones.
- (12) The Contractor shall describe its approach to interactions with on- and off-site stakeholders.

- (13) The Contractor shall describe its approach for Final Verification Surveys demonstrating successfully negotiated and implemented processes with the regulators, as applicable.
- (14) The Contractor shall describe its approach to executing all applicable DOE Order and regulatory requirements to perform the SOW.
- (15) The Contractor shall describe its approach to integrating safety management into its approach to accomplishing the work.

2. KEY PERSONNEL

(a) This information is part of Volume II, but is not part of the Technical and Management proposal; therefore, it is excluded from the 25-page limitation described in paragraph L.1(c). The contractor shall identify and provide key personnel responsible for the following areas:

- Project Management
- Environmental Safety and Health
- Project Controls.

(b) The Contractor shall provide resumes (using the format at Attachment L-6) for the key personnel. The font can be no smaller than 10 point. The resumes shall only be two pages. Additional pages will not be evaluated. The resumes shall identify which of the three areas above is the responsibility of the key personnel being proposed. The resumes should include at a minimum the following for the proposed key person: education, leadership experience and qualifications, relevant experience, regulatory experience, suitability for the proposed position, and experience on work similar to that described in the SOW and the function performed on the similar work. Additionally, the resumes shall specifically describe and relate the key personnel's experience to the Mound OU-1 Project and to the Contractor's proposed technical and management approach.

- (c) The Contractor shall submit signed letters of commitment. The letter of commitment will state:

"I hereby certify that the resume submitted as part of the proposal is true and correct, and that _____ (insert name of the individual proposed) will accept the proposed position of _____ (insert name of proposed position) if _____ (insert name of Contractor) receives the award and will perform in the proposed position for the performance period of the task order

3. PAST PERFORMANCE

(a) This information is part of Volume II, but is not part of the Technical and Management proposal; therefore, it is excluded from the 25-page limitation described in paragraph L.1(c). The Contractor shall provide past performance information for the Contractor, Teaming Partners and Major Subcontractors, i.e. proposed to perform over \$5 million of work for the entire performance period of the task order.

(b) The Contractor shall provide and describe relevant past performance information for three contracts that it has performed or is performing within the last two years as well as provide and describe relevant past performance information for three contracts performed or is being performed within the last two years for each of its Teaming Partner and provide and describe relevant past performance experience for one contract performed or is being performed within the last two years for each Major Subcontractor. Exclusion: Past Performance Questionnaires are not required for proposed subcontracts with supply vendors or currently permitted commercial disposal facilities/Federal Government owned facilities.

(c) In addition to the past performance information for three contracts above, the Contractor shall provide Past Performance information on all task orders it or its teaming partner or major subcontractor has performed or is performing under the EM Nationwide IDIQ contract.

(d) For each of the contracts/task orders, the Contractor shall submit the past performance information as shown in Attachment L-1, Contractor Past Performance Reference Information Worksheet.

- (e) In addition, the Contractor shall forward a Contractor Past Performance Reference Letter and Questionnaire, as specified in Attachment L-2, for each contract/task order cited above to the appropriate point of contact for that contract/task order. The Contractor may use the information in Attachment L-2 or its own format of a past performance reference letter to identify the project. The point of contact for each project should complete and mail (not email) or hand-carry the questionnaire to the Contracting Officer identified in Section L.1 prior to the closing date of the solicitation. The project information used for respondents must be sufficient to enable cross-referencing of Attachment L-1 and the returned questionnaires.
- (f) At the Contracting Officer's discretion, the Government may choose to consider questionnaires that arrive subsequent to the closing date of the RTP if such consideration does not unduly delay the evaluation.

L.4 COST PROPOSAL – VOLUME III

The Contractor shall propose a Task Order Project Costs and Fees for each contract line item (CLIN) (as defined in Section B) for the completion of all work associated with this RTP. The Contractor shall submit the Cost and Fee Recapitulation table at Section L, Attachment L-7.

- (a) Task Order Project Cost – The Task Order Project Costs represents the cost for the sum total of all activities associated with the completion of the SOW. The Project Costs shall directly relate to the cost proposal and Work Breakdown Structure.
- (b) Fixed Fee: ******CONTRACTORS ARE REMINDED TO COMPLY WITH THE MAXIMUM FEE SET FORTH IN EACH CONTRACTOR'S ID/IQ BASIC CONTRACT.**
- (i) The Fixed Fee shall be proposed separately for each CLIN
- (ii) The Contractor may propose whatever fee per CLIN it determines appropriate provided the fee amount as a percentage of the cost for each CLIN does not exceed the contract fee ceiling established in the basic IDIQ contract as B-05 "Indirect Rate and Fee Ceilings".

- (iii) The amount of fixed fee is subject to the maximum fee percentage specified in the contractor's basic contract. In the event of a conflict between the amount of the fixed fee specified in Section B.3, when calculated as a percentage of the estimated cost(s), exceeds the maximum fee percentage specified in the basic contract, the maximum fee percentage specified in the basic contract takes precedence. Under the foregoing circumstances, the amount of the fixed fee will be calculated in accordance with the maximum fee percentage specified in the basic contract for purposes of evaluation, regardless of the amount specified in Section B.3.
 - (iv) Nothing included herein will prohibit contractors from proposing fee at a percentage less than the maximum specified in the contractor's basic contract.
- (c) In accordance with H.10(a) of the basic ID/IQ contract, the Cost/Price Proposal shall include a Basis of Estimate correlated with activities identified in the SOW, Section C, in sufficient enough detail to allow a thorough analysis. Supporting documentation, if considered to be proprietary and confidential by the task order contractor, can be submitted under separate cover to the government. The Basis of Estimate detail shall include the detail at Attachment L-3 for cost worksheets:
1. Total Costs (Cost and Fee) by WBS and by cost element for each WBS;
 2. Cost elements shall include:
 3. Labor Costs (rates and hours)
 4. Material Costs
 5. Subcontract Costs
 6. Disposal Costs
 7. Transportation Costs
 8. Treatment Costs
 9. Other Direct Costs
 10. Fringe Benefit, Overhead and G&A allocations (rates and costs)
 11. Cost contingency and basis for the contingency
 12. Escalation

- (d) Contractor shall clearly indicate for each WBS by cost element:
1. What data is existing and verifiable
 2. Judgmental factors applied in projecting from known source data to the estimate
 3. Key assumptions (not in conflict with the WBS)
 4. Basis for each cost element
- (e) The Contractor shall use the format shown in Section L, Attachment L-3, as part of the Contractor's proposal detailing the proposed cost element by WBS, as discussed in L.4(c)(i)(2) above. The information provided in the worksheets shall be fully traceable to the cost proposal.
- (f) The Contractor shall use the format shown in Section L, Attachment L-4 to provide a separate summary table of waste quantities by waste type in volume (cubic feet) and weight (tons) by WBS. This waste summary table shall be supplemented by additional tables that include all costs associated with waste disposition including treatment, transportation, and disposal (separate detailed computation shall be provided for treatment, transportation and disposal costs by WBS) for each waste type. The basis of the estimate associated with information provided in the waste summary table (including additional tables) should be fully explained in supporting documentation.
- (g) The Contractor is required to provide a reconciliation between the waste quantities identified in Attachment L-4, "Disposal Waste Quantities Table" and Attachment L-5, "Waste Quantities Table." The Contractor shall provide an explanation of how each waste type is to be dispositioned by WBS.
- (h) The Contractor shall provide one (1) original and three (3) hard copies of the Cost Proposal. Attachments L-3 and L-4, Cost Proposal Information and any spreadsheets or mathematical computation shall be submitted using Microsoft Excel 2000 or higher. The Contractor's Excel files shall be working versions including formulas and computations. A second electronic file shall be provided in Adobe Acrobat 6.0 (PDF) or higher. Any written text for the Cost Proposal shall be submitted using Adobe Acrobat 6.0 (PDF) or higher. The electronic media versions provided shall be searchable.
- (i) The Contractor shall provide the location (address and telephone number and point of contact) of where documentation supporting the Cost Proposal is located. The Contractor shall provide the name, address and telephone number of the cognizant Administrative CO and the cognizant Defense Contract Audit Agency (DCAA) office, if any.

Additionally, the Contractor shall provide the name, address, and telephone number of person(s) authorized to provide any clarifying information regarding the Cost Proposal.

- (j) The proposed project support cost (SOW 4.0), Regulatory Interaction (WBS 5.0) and Public Involvement and Stakeholders Interaction (WBS 6.0) shall be allocated across all WBSs. The allocation methodology to be used by the Contractor shall be total cost input base. The allocation percentage is computed as follows:

• Numerator:

Total Cost (Direct Labor, Overhead, Materials, Equipment, Subcontract, Disposal, Transportation, Treatment, Other Direct Costs, G&A and Contingency) associated with WBS 4.0 through WBS 6.0.

• Denominator:

Total Cost (Direct Labor, Overhead, Materials, Equipment, Subcontract, disposal, transportation, treatment, other direct cost, G&A and contingency) associated with WBSs 2.1.1, 2.1.2, 2.2.1, 2.2.2, 2.2.3, 2.2.4, 2.3, 2.4, 2.5 and 3.0.

- The developed rate will be applied to the WBSs that are shown in the denominator and the resultant number placed on the line in Attachment L-3 called "Allocation from WBS 4.0 through 6.0".

- (k) This allocation, however, shall be in accordance with the funding restrictions identified. The contractor shall explain the allocation of its costs in a manner that ensures compliance with the appropriate use of the \$29 million for OU1 and not for PRS 441.
- (l) Due to two different funding sources associated with the planned work scope (OU-1 and PRS 441), DOE separated the original work stated in 2.4, 2.5 and 3.0 into 2.4.1 (Final Verification Survey OU-1), 2.4.2 (Final Verification Survey PRS-441), 2.5.1 (Final Grading, Seeding and Extraneous Debris Removal OU-1), 2.5.2 (Final Grading, Seeding and Extraneous Debris Removal PRS-441), 3.1 (Project Completion and Demobilization OU-1) and 3.2 (Project Completion and Demobilization PRS-441) to account for the different funding sources.
- (m) The Contractor shall describe the proposed accounting system and the adequacy of that system for reporting against Government cost type contracts and compliance with Cost Accounting Standards.

L.5 AMENDMENT OF THE RTP

The only method by which any term of the RTP may be modified is by an express, formal amendment to the RTP generated by the DCO. No other communication made, whether oral or in writing, will modify or supersede the terms of the RTP.

Attachment L-1

Contractor Past-Performance Reference Information Worksheet and Questionnaire

1. Complete name of Government agency, commercial firm, or other organization	
2. Complete address	
3. Contract number or other reference and type	4. Date of contract
5. Date work commenced	6. Date work was completed
7. Contract Type and Contract Value	8. Final amount invoiced or amount invoiced to date
9a. Technical point of contact (name, title, company/agency, address, telephone number, fax number, and e-mail address)	9b. Contracting point of contact (name, title, company/agency, address, telephone number, fax number, and e-mail address)
9c. Environmental Regulator point of contact (name, title, company/agency, address, telephone number, fax number, and e-mail address)	10. Consultants and partners/subcontractors used (names, addresses, and phone numbers)
11. Project/Contract Title	
12. Description of contract work (Describe nature and scope)	

Attach additional sheet if necessary (one additional sheet maximum)

Instructions for Completing the Reference Information Worksheet

- Item 1. Insert the complete name and address of the customer, including parent organization, if any. Do not use acronyms.
- Item 2. Insert the customer's complete address, including both post office box and street addresses, if applicable.
- Item 3. Insert any contract number or other contract reference used by the customer and contract type.
- Item 4. Insert the date on which the contract came into existence.
- Item 5. Insert the date on which you started to perform the work.
- Item 6. Insert the date on which the customer agreed that the work was satisfactorily completed (including substantial completion), aside from any pending or on-going administrative actions, claims negotiations, or litigation.
- Item 7. Insert the contract type and contract value (separately listing fee if cost-type).
- Item 8. Insert the final sum of all invoices, or the sum of all invoices to date, including agreed upon and disputed amounts, paid and awaiting payment.
- Item 9a. Insert the name, title, company/agency, address, telephone number, facsimile number, and e-mail address (if available) of the program or project manager, quality assurance representative, or other customer technical representative who is most familiar with the quality of your work under the contract.
- Item 9b. Insert the name, title, company/agency, address, telephone number, facsimile number, and e-mail address (if available) of the contracting officer, purchasing agent, or other customer contracting or purchasing representative who is most familiar with your work under the contract.
- Item 9c. Insert the name, title, company/agency, address, telephone number, facsimile number, and e-mail address (if available) of (a) lead environmental regulator(s) or a State regulatory office director under whose authority environmental regulations would be enforced.
- Item 10. Insert names and phone numbers of consultants and partners/subcontractors used.
- Item 11. Insert the title of the project and/or contract.
- Item 12. Describe the nature and scope of the work. Describe the relevance of the work to the current acquisition and discuss performance. The objective is to show how the work that you did or are doing is similar in nature and scope to the work that is to be performed under the contract contemplated by the request for proposals. Describe any unusual circumstances of performance or problems that may be relevant to the work that is to be performed. Tell your side of the story of any conflicts with the customer concerning which they may make adverse remarks about your performance. Describe any actions that you have taken or plan to take to correct any shortcomings in your performance.

Attachment L-2

Past Performance Letter

Date _____

Dear _____:

We are participating in a proposal for a Department of Energy (DOE) Task Order for the Mound OU-1 Project. We are asking for your assistance in completing the attached questionnaire and forwarding to the DOE to aid in its evaluation of our past performance on <<insert project or contract>>. Please return the completed questionnaire to the following address within ten calendar days:

Harold D. Hincks, Contracting Officer
United States Department of Energy
Environmental Management Consolidated Business Center
Office of Contracting
250 E 5th Street, Suite 500
Cincinnati, OH 45202

Please mark the envelope:

“PROCUREMENT SENSITIVE SOURCE SELECTION INFORMATION - SEE FAR 3.104”
“TO BE OPENED ONLY BY THE CONTRACTING OFFICER”

Please remember to provide your contact information at the end of the questionnaire.

Please use the following definitions to provide your ratings:

- 0 - Unsatisfactory - The contractor failed to meet the minimum contract requirements.
- 1 - Poor - Performance was less than expected. The contractor performed below minimum contract requirements.
- 2 - Satisfactory - Performance met expected levels. The contractor met the minimum contract requirements.
- 3 - Good - Contractor performance exceeded expected levels. The contractor performed above minimum contract requirements and displayed a thorough understanding of contract requirements.
- 4 - Excellent - Contractor performance substantially exceeded expected levels of performance. The contractor consistently performed above contract requirements, displayed an overall superior understanding of contract requirements, and used innovative approaches leading to enhanced performance.

NA - Not applicable

DK - Don't know. No knowledge available to rate this question.

Respondents are strongly encouraged to provide an explanatory narrative under REMARKS. If more space is needed, please attach additional pages.

Attachment L-2 (Continued)

Past Performance Questionnaire

0=Unsatisfactory, 1=Poor, 2=Satisfactory, 3=Good, 4=Excellent, NA=Not Applicable, DK=Don't Know
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DK=Don't Know

Name of Contractor: _____

Project/Contract: _____

	0 1 2 3 4 NA DK
Did the contractor adhere to contract delivery schedules/response times/cost estimates/budgets?	0 1 2 3 4 NA DK

	0 1 2 3 4 NA DK
Did the contractor submit reports that were of good quality and on-time?	0 1 2 3 4 NA DK

	0 1 2 3 4 NA DK
Was the Statement of Work executed effectively by the contractor in a consistently high quality manner?	0 1 2 3 4 NA DK

	0 1 2 3 4 NA DK
Was the contractor effective in subcontract management?	0 1 2 3 4 NA DK

	0 1 2 3 4 NA DK
Did the contractor's corporate office effectively support your contract?	0 1 2 3 4 NA DK

	0 1 2 3 4 NA DK
Was the contractor effective in working with regulators, stakeholders, organized labor, community groups, and other interested persons?	0 1 2 3 4 NA DK

	Yes _____ No _____
Would you select this contractor again?	

Remarks:

Respondent: Please fill in the following table:

Item	Fill-In
Your Name	
Title	
Organization Name	
Organization Address (including City, State, ZIP)	
Telephone Number (w/area code)	
Facsimile Number (w/area code)	
e-mail address	

Attachment L-3

Summary of Cost Worksheets

SUMMARY OF COST WORKSHEETS		
Total Proposed Price		
Direct Labor		
Fringe Benefits		
Direct Labor Overhead		
Materials		
Equipment		
Subcontract Costs		
Disposal Costs		
Transportation Costs		
Treatment Costs		
Other Direct Costs		
G&A Costs		
Contingency		
Total Cost		

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS Complete for Each Fiscal Year

Environmental Remediation	WBS Element	2.0		
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Site Sanitary Landfill, Liner and Cap	WBS Element	2.1		
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS Complete for Each Fiscal Year

Site Sanitary Landfill Waste	WBS Element	2.1.1		
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Site Sanitary Landfill Cover, Berm, Cap and Liner	WBS		Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
	Element	2.1.2				
Direct Labor						
<i>Insert Direct Labor Categories</i>						
Subtotal of Direct Labor Costs						
Fringe Benefits						
Direct Labor Overhead						
Materials						
Equipment						
Subcontract Costs						
Disposal Costs						
Transportation Costs						
Treatment Costs						
Other Direct Costs						
G&A Costs						
Contingency						
Subtotal Cost						
Allocation from WBS 4.0 through WBS 6.0						
Total Costs						

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS Complete for Each Fiscal Year

Historical Waste Disposal Area	WBS Element		2.2	
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Thorium and Polonium Contaminated Waste Area	WBS Element	2.2.1		
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Volatile Organic Compounds "Hot Spots"	WBS Element 2.2.2		Direct Labor Cost	Proposed Cost
	Direct Labor Hours	Direct Labor Rate		
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Other Historical Waste	WBS Element	2.2.3			
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost	
Direct Labor					
<i>Insert Direct Labor Categories</i>					
Subtotal of Direct Labor Costs					
Fringe Benefits					
Direct Labor Overhead					
Materials					
Equipment					
Subcontract Costs					
Disposal Costs					
Transportation Costs					
Treatment Costs					
Other Direct Costs					
G&A Costs					
Contingency					
Subtotal Cost					
Allocation from WBS 4.0 through WBS 6.0					
Total Costs					

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Dayton Unit	WBS Element	2.2.4			
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost	
Direct Labor					
<i>Insert Direct Labor Categories</i>					
Subtotal of Direct Labor Costs					
Fringe Benefits					
Direct Labor Overhead					
Materials					
Equipment					
Subcontract Costs					
Disposal Costs					
Transportation Costs					
Treatment Costs					
Other Direct Costs					
G&A Costs					
Contingency					
Subtotal Cost					
Allocation from WBS 4.0 through WBS 6.0					
Total Costs					

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Remdiation of PRS 441 - Soil Staging Area	WBS Element	2.3		
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Final Verification Survey OU-1	WBS		Direct Labor Cost	Proposed Cost
	Element	2.4.1		
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Final Verification Survey PRS-441	WBS			
	Element	2.4.2		
	Direct	Direct	Direct	
	Labor	Labor	Labor	Proposed
	Hours	Rate	Cost	Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Final Grading, Seeding, and Extraneous Debris Removal OU-1		WBS Element	2.5.1		
		Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor					
<i>Insert Direct Labor Categories</i>					
Subtotal of Direct Labor Costs					
Fringe Benefits					
Direct Labor Overhead					
Materials					
Equipment					
Subcontract Costs					
Disposal Costs					
Transportation Costs					
Treatment Costs					
Other Direct Costs					
G&A Costs					
Contingency					
Subtotal Cost					
Allocation from WBS 4.0 through WBS 6.0					
Total Costs					

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS

Complete for Each Fiscal Year

Final Grading, Seeding, and Extraneous Debris Removal PRS-441	WBS Element	2.5.2		
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Subtotal Cost				
Allocation from WBS 4.0 through WBS 6.0				
Total Costs				

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Project Completion and Demobilization OU-1

WBS
Element 3.1

Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
--------------------------	-------------------------	-------------------------	------------------

Direct Labor

Insert Direct Labor Categories

Subtotal of Direct Labor Costs

Fringe Benefits

Direct Labor Overhead

Materials

Equipment

Subcontract Costs

Disposal Costs

Transportation Costs

Treatment Costs

Other Direct Costs

G&A Costs

Contingency

Subtotal Cost

Allocation from WBS 4.0 through WBS 6.0

Total Costs

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS
Complete for Each Fiscal Year

Project Completion and Demobilization PRS-441	WBS Element	3.2			
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost	
Direct Labor					
<i>Insert Direct Labor Categories</i>					
Subtotal of Direct Labor Costs					
Fringe Benefits					
Direct Labor Overhead					
Materials					
Equipment					
Subcontract Costs					
Disposal Costs					
Transportation Costs					
Treatment Costs					
Other Direct Costs					
G&A Costs					
Contingency					
Subtotal Cost					
Allocation from WBS 4.0 through WBS 6.0					
Total Costs					

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS Complete for Each Fiscal Year

Project Support	WBS Element	4.0		
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Total Cost				

Costs are to be allocated on a Total Cost Input
Base -- WBS 2.1.1, 2.1.2, 2.2.1, 2.2.2, 2.2.3,
2.2.4, 2.3, 2.4.1, 2.4.2, 2.5.1, 2.5.2, 3.1 and 3.2

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS Complete for Each Fiscal Year

Regulator Interaction	WBS Element	5.0		
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost
Direct Labor				
<i>Insert Direct Labor Categories</i>				
Subtotal of Direct Labor Costs				
Fringe Benefits				
Direct Labor Overhead				
Materials				
Equipment				
Subcontract Costs				
Disposal Costs				
Transportation Costs				
Treatment Costs				
Other Direct Costs				
G&A Costs				
Contingency				
Total Cost				

Costs are to be allocated on a Total Cost Input
Base WBS 2.1.1, 2.1.2, 2.2.1, 2.2.2, 2.2.3,
2.2.4, 2.3, 2.4.1, 2.4.2, 2.5.1, 2.5.2, 3.1 and 3.2

Attachment L-3

Summary of Cost Worksheets (Continued)

SUMMARY OF COST WORKSHEETS Complete for Each Fiscal Year

Public Involvement and Stakeholders Interaction	WBS Element	6.0			
	Direct Labor Hours	Direct Labor Rate	Direct Labor Cost	Proposed Cost	
Direct Labor					
<i>Insert Direct Labor Categories</i>					
Subtotal of Direct Labor Costs					
Fringe Benefits					
Direct Labor Overhead					
Materials					
Equipment					
Subcontract Costs					
Disposal Costs					
Transportation Costs					
Treatment Costs					
Other Direct Costs					
G&A Costs					
Contingency					
Total Cost					

Costs are to be allocated on a Total Cost Input Base
WBS 2.1.1, 2.1.2, 2.2.1, 2.2.2, 2.2.3, 2.2.4, 2.3,
2.4.1, 2.4.2, 2.5.1, 2.5.2, 3.1 and 3.2

Attachment L-4
Disposal Waste Quantities Table

WBS		WBS	Vol. (ft ³)	Wt. (tons)
2.1	Site Sanitary Landfill, Liner and Cap			
2.1.1	Site Sanitary Landfill Waste			
	LLW Soils			
	LLW Debris			
	Hazardous			
	Sanitary			
2.1.2	Site Sanitary Lanfill Cover, Berm, Cap and Liner			
	LLW			
	LLW Debris			
	Hazardous			
	Sanitary			
2.2	Historical Waste Disposal Area			
2.2.1	Thorium Drums Areas (PRS -11)			
	LLW			
	LLW Debris			
	Hazardous			
	Sanitary			
2.2.2	Volatile Organic Compounds (VOC) "Hot Spots" Area			
	LLW			
	LLW Debris			
	Hazardous			
	Sanitary			
2.2.3	Other Historical Waste			
	LLW			
	LLW Debris			
	Hazardous			
	Sanitary			
2.2.4	Dayton Unit			
	LLW			
	LLW Debris			
	Hazardous			
	Sanitary			
2.3	Remediation of PRS -441 Soil Staging Area			
	LLW			
	LLW Debris			
	Hazardous			
	Sanitary			

Attachment L-5

Assumptions and Waste Quantities Table

Assumptions

Other Assumptions to be Used	
1.	Total and subunit volumes to be used are shown in the attached table.
2.	Locations and elevations are shown in accompanying maps and drawings
Assumed Compositions, Proportions and Disposal of Waste Units	
3.	The site sanitary landfill cover and 40% of the liner are clean soil and can be mixed with the clean berm material.
4.	The site sanitary landfill wastes , the cap and 60 % of the liner can be disposed of as a sanitary waste.
5.	5,081 bank cubic yards of berm material were removed during the 2005 PRS-11 project. 6,815 bank cubic yards of berm material were used to backfill the PRS 11 excavation.
6.	In order to access the historic wastes, 50% of the remaining berm material , and all of the PRS 11 backfill material will need to be excavated. (50% of the remaining berm will be left in place).
7.	The berm material is 99% clean soil, and can be field screened. It can be used as backfill within the project area, and in-place verification sampling will be conducted. 1% will need disposal as a sanitary landfill waste due to a trace of visible waste.
8.	50% of the remaining PRS-11 waste will be disposed of as low-level RAD debris waste and 50% will be disposed of as low-RAD soil waste.
9.	The VOC hot spot waste will be disposed of as 10% low-level RAD soil, 5% as low-level RAD debris and 85% will be disposed of as HAZ waste.
10.	The Dayton unit waste will be disposed of as 25% low-level RAD debris and 75% low-level RAD soil.
11.	Other than the Dayton Unit , PRS 11 , and the VOC hot spot area , the remaining wastes in the Historic Waste Disposal Area will require disposal as low-level RAD soil.
12.	The overflow pond liner is 100% clean and does not need to be tested.
13.	The site sanitary landfill wastes will be laboratory tested according to requirements set by the disposal facility.
Assumptions Concerning Extents of Units	
14.	The bottom surface of the 2005 PRS-11 excavation was confirmed to meet site clean up criteria for RAD contamination. However, VOC contamination above Mound 10 ⁻⁵ Guideline Values was present at the bottom surface.

15.	The interface between the sanitary waste and the liner and the cap materials can be determined visually, but an extra two or three feet beyond the apparent limit of waste will also be removed to assure all the waste and any possible contaminated soil is removed.
16.	The interface elevation between the berm material and the historic wastes can be determined visually. The first indications of contamination by field screening will determine the lower limit of the berm material.

Assumptions Concerning Time and Materials

17.	Workers will require level B, Personal Protective Equipment (PPE) 3% of the time, level C 25% of the time, level D 50% of the time, and just normal construction type PPE the rest of the time.
18.	To remove the northern tip of the historic waste disposal area , which is under the overflow pond , the pond must be drained and storm water managed.

Assumptions About Testing

19.	Field screening will be performed on the bottom and sides of excavations, and on materials that have been excavated. The screening will include use of a Flame Ionization Detector (FID) and/or a Photoionization Detector (PID) for Volatile Organic Compounds (VOCs), a Field Instrument for the Detection of Low Energy Radiation (FIDLER) for radiation, and observations for visible waste materials. Field screening will be documented.
20.	The analysis of verification samples will be for the list of radionuclides on the Mound Cleanup Value table (attachment L-8)
21.	Verification samples will be collected on a 15' triangular grid (1 sample/197ft ²). If needed they will be collected at 4' depth intervals.

Assumptions that apply if not all waste can be removed from the site.

22.	The cocooned wastes from the site sanitary landfill , the cap and the contaminated parts of the liner will be moved to the bottom of the excavation created by the removal of the historic wastes .
23.	Wastes from the site sanitary landfill must be covered, underlain, and surrounded by at least 2 feet of low-permeability soil, compacted to 90% proctor.
24.	Other remediated areas with any type of waste that has not been removed must be covered with a minimum of 24 inches of clean soil cover. This applies to both the walls and bottom of any excavation that has not been confirmed to be clean.

Waste Quantities Table

Units to be Excavated		2004 Volumes in BCY		Type of Disposal		Removed in 2005		Remaining in 2006		To Be Removed		
				percent	as	Vol.			percent	Volume	Swollen	by
Site Sanitary Landfill	Cap	26,086	2,867	100%	Sanitary waste	2,867	0	2,867	100%	2,867	3,727	a
	Waste		16,129	100%	Sanitary waste	16,129	0	16,129	100%	16,129	20,968	b
	Liner		5,285	60%	Sanitary waste	3,171	0	3,171	100%	3,171	4,122	c
	Cover		1,805	40%	Clean backfill	2,114	0	2,114	100%	2,114	2,748	d
Berm		51,973		100%	Clean backfill	1,805	0	1,805	100%	1,805	2,347	e
	99%			Clean backfill	51,453	5,081	46,372	100%	46,372	60,284	f	
	1%			Sanitary waste	520	0	520	100%	520	676	g	
PRS-11 Backfill		0		100%	Clean Backfill	6,815	0	6,815	100%	6,815	7,497	h
Part of Pond Liner over historic waste		1,622		100%	Clean Backfill	1,622	0	1,622	100%	1,622	2,109	i
Historic Waste Disposal Area	PRS-11	4,811		50%	Low RAD soil	2,406	1,388	1,018	100%	1,018	1,323	j
				50%	Low RAD debris	2,406	1,388	1,018	100%	1,018	1,323	k
				0%	Mixed	0	0	0	100%	0	0	l
	VOC Hot Spot	2,541		10%	Low RAD soil	254	213	41	100%	41	53	m
				5%	Low RAD debris	127	0	127	100%	127	165	n
				85%	HAZ	2,160	0	2,160	100%	2,160	2,808	o
	Dayton Unit	3,622		75%	Low RAD soil	2,717	267	2,450	100%	2,450	3,185	p
				25%	Low RAD debris	906	0	906	100%	906	1,177	q
	Remainder south of dike			100%	Low RAD Soil	29,670	2,081	27,589	100%	27,589	35,865	r
	Remainder under dike & pond	36,581	29,670	100%	Low RAD soil and debris	6,911	0	6,911	100%	6,911	8,984	s
PRS 441						0	0	6,100	100%	6,100	7,900	t
Totals		127,236 BCY					10,418 BCY	129,735 BCY	100%	129,735 BCY	167,261 CY	

Waste Quantities Table (Cont'd)

Type of Disposal Facility	Sum of which line items	By Volume	By Weight
Disposal as Low RAD soil waste	j, m, p, r, s, and t	57,310	71,600
Disposal as Low RAD debris waste	k, n, and q	2,666	3,332
Disposal as Mixed RAD/HAZ waste	l	0	0
Disposal as mixed Low RAD/HAZ waste w/ treatment	None	0	0
Disposal as HAZ Waste	O	2,808	3,510
Disposal as HAZ waste w/ treatment	None	0	0
Disposal as sanitary waste	a, b, c, and g	29,493	36,866
Total Amounts for Possible off-site Disposal		92,277	115,308
Excavated and possible reuse On-site as backfill	d, e, f, h, i, and j	81,084	93,730
		CY	Tons

Attachment L-6

Key Personnel Resume Format

Name:

Proposed Position with Offeror:

Key Duties and Responsibilities in Proposed Position:

Current Position and Employer:

Length of Employment:

Supervisor:

Address and Telephone Number:

(Identify employers, position titles, dates of employment, specific duties and responsibilities. Provide written resumes that describe relevant experience. The resumes shall describe how work experience relates to Mound OU-1 Project issues and capability to function effectively in his/her proposed team position.)

Relevant Experience: (Current and at least two (2) previous employers or positions)

Leadership: (Identify specific examples of demonstrated leadership as opposed to just leadership positions held.)

Suitability and capability to perform the SOW:

Education:

(Identify institution, degree earned, dates or state "no degree" if applicable)

Professional Development and Achievements:

(Identify professional memberships, special training, professional registrations, etc.)

References [provide three (3)]:

(Name, title, company/organization, address, phone numbers)

Attachment L-7

Cost and Fee Recapitulation

CLIN	Estimated Cost	Fixed Fee	Total
001			
002			
003			
004			
005			
006			
Total Task Order			

Attachment L-8

Mound Cleanup Value Table

Mound Cleanup Value Table (pCi/g)						
RADIONUCLID E	Bkgd.	Guideline	Screening	Cleanup	Hot Spot	CRDL
		Value 10 ⁻⁶	Level ⁽⁶⁾	Objective	Criteria	
Actinium-227+D	0.11 ⁽³⁾	0.45 ⁽²⁾ +D	0.56	4.6	13.61	0.8
Americium-241	ND	6.3 ⁽²⁾	6.3	63	189	1.0
Cerium-141	assume 0	3.8	3.8	38	114	
Cesium-137+D	0.42	0.34 ⁽²⁾ +D	0.76	3.8	10.62	0.2
Cobalt-60	NC	0.07 ⁽²⁾	0.07	0.7	2.1	0.12
Curium-244	ND	9.2	9.2	92		
Lead-210+D	1.2 ⁽³⁾	0.62 ⁽²⁾ +D	1.8 ⁽⁷⁾	7.4	19.8	1.0
Neptunium-237+D	assume 0	1.04	1.04	10.4	31.2	
Niobium-95	assume 0	0.25	0.25	2.5	7.5	
Plutonium-238	0.13	6.1 ⁽¹⁾	55 ⁽⁴⁾	55	165.13	0.01
Plutonium-239/240 ⁽⁹⁾	0.18	6.0	6.2	62		0.01
Protactinium-231+D	0.11 ⁽³⁾	0.39 ⁽²⁾ +D	4.0 ⁽⁸⁾	4.0	11.81	
Radium-226+D	2.0	0.09 ⁽²⁾ +D	2.1	2.9	4.7	1.3
Radium-228	1.4 ⁽¹⁰⁾	0.07	1.47 ⁽¹⁰⁾	2.1 ⁽¹⁰⁾		
Thorium-228+D	1.5	0.11 ⁽²⁾ +D	1.61	2.6	4.8	0.1
Thorium-230+D	1.9	0.09 ⁽²⁾	10MDA ⁽⁵⁾ or 2.0	2.8	4.6	0.1
Thorium-232+D	1.4	0.07 ⁽²⁾	1.47	2.1	3.5	0.1
Uranium-233+D	assume 0	0.48	0.48	4.8		
Uranium-234+D	1.1	0.09	1.2	2.0		
Uranium-235+D	0.11	0.31	0.42	3.2		
Uranium-238+D	1.2	0.1 ⁽²⁾ +D	1.3	2.2	4.2	
Bismuth-207	ND	0.12	0.175 ⁽⁷⁾	1.2	3.6	
Bismuth-210m	ND	0.83	1.0 ⁽⁷⁾	8.3	24.9	
Tc-99		214	214	2140		
Strontium-90	0.72	9.4	10.1	94.72	282.72	

NOTES:

U238>th234>Pa234m>U234>th230

(1) These guideline values are based on the more restrictive of the Construction Worker and Site Employee Values from Risk-Based Guideline Values, Mound Plant, Miamisburg, Ohio, March 1997, Final (Revision 4), Appendix B, Tables 4B & 5B.

(2) These guideline values are based on the more restrictive of the Construction Worker and Site Employee Values.

These values were calculated using the methodology contained in Risk Based Guideline Values, March 1997, Final but were performed using April 2001 HEAST slope factors.

(3) These radionuclides have comparatively short half-lives and are deduced to be in secular equilibrium with the parent nuclide. Thus the background value measured for the parent is considered to be the appropriate value for these as well.

The validity of using this method for background determination for other radionuclides will be assessed on a case by case basis.

(4) These values represent 1E-5 risk value

(5) If Th-230 is a contaminant of concern (COC), then the Screening Level is 1.99 pCi/g (10-6 RBGV (0.09 pCi/g) plus background (1.9 pCi/g)). If Th-230 is not a COC MCP will use our normal sample analysis process through gamma spectroscopy unless specified differently in a sampling and analysis plan. MCP will assure that the Th-230 MDA is less than 10 pCi/g (This implies a minimum laboratory counting time.). If Th-230 is detected greater than the MDA but below 10 pCi/g, MCP may re-analyze (gamma or alpha spectroscopy) the soil sample to confirm the absence or presence of Th-230. The MDA must be less than 10 pCi/g for the Th-230 result to be of value. 10 pCi/g is not a screening level for Th-230, rather an MDA for Th-230, at which gamma spec analysis can cease and results can be reported. It is more a reporting limit and defines the count time for the analysis suite because it is the limiting isotope (requires longest count to "see").

(6) The Screening Level is reflective of onsite Gamma Spec Laboratory capabilities and will be used to determine if additional (above guideline values) will trigger alpha spectroscopic analysis of the sample.

(7) Current Contract-Required Detection Limit (CRDL)

(8) Per agreement, 10-5 + background will be used because of the inability to "see" Pa at 10-6 level.

(9) Pu-238/239, Pu-239, and Pu-240 10-6 = 6.0 pCi/g

(10) based on parent nuclide (Th-232) and its background

U-238 may be assessed for secular equilibrium and appropriate GV used.

NC = Not Calculated

ND = Not detected

HEAST slope factors dated April 2001.

10⁻⁵ + bkgd approved based on lab detection limitations